

Generator Spreadsheets

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What Evan Just Showed

- How/Where to find MCAQ Spreadsheets (Web)
- Origin of Heat Values and Emission Factors
 - AP-42 for emission factors
- Use of Boiler Spreadsheet



Now Jimmy Starts



Disclaimer

The following statement and/or slide does not necessarily reflect the opinions of Mecklenburg County or Mecklenburg County Air Quality and are entirely my own.



EMISSION FACTOR PHILOSOPHY

“An emission factor is a number which passes as an accurate approximation of emissions and is developed with prolific fortitude from extremely incomprehensible information and calculated with microscopic precision using extremely vague assumptions which are based on debatable figures acquired from inconclusive tests and quite incomplete experiments carried out with instruments of problematic accuracy by person of doubtful reliability and rather dubious mentality.”

“Emission Factor Uses and Misuses”

James H. Southerland

USEPA, 1994.



Generator Spreadsheets

- Two Types of Generator Spreadsheets
 - Large Generators (> 600 Hp diesel and >250 Hp gasoline)
 - Small Generators (≤ 600 Hp diesel and ≤ 250 Hp gasoline)
- Small has Input, Output, Factor, and Revision Tabs like Boiler Spreadsheet and are Used in a Similar Manner
- I'll show you the Small Spreadsheet
- Large has More Inputs
 - Uses Engine Output Hp as Input OR Fuel Input in mmBtu as Input dependent upon the Tab you select
 - Both show Output emissions on same page where Inputs are entered
 - Can get different emissions from different Inputs
- User Help has been Added as a Tab in Small and as a Document for Large Spreadsheet



Start your
icesmallengine.xls



Start your
icelargeengine.xls



Well, the old Clock on the Wall
Says it's Time to Say Goodbye, so
Goodbye.